

Claims

1. A convertible vehicle comprising a top compartment (6) for receiving its top (2) when in the open position and having a top compartment lid (8) that has for a pivotable support thereof at least one hinge device (7; 7') mounted on the vehicle body, wherein on its frame part (T) at least one hinge lifter (15) is provided that is pivotable by means of a first hinge (16) and is connected with the other end by a connecting part (14) comprising a second hinge (14') to the top compartment lid (8), characterized in that on the hinge lifter (15) a movement lock (30) is provided that is active between the connecting part (14) and the frame part (T) and, when opening the top compartment lid (8), is movable into a securing position counteracting a return movement (arrow G') thereof and releasable for closing the top compartment lid (8).

2. A hinge device according to claim 1, characterized in that the movement lock (30) cooperates with a control device (31) pivotably connected to the hinge lifter (15).

3. The hinge device according to claim 1 or claim 2, characterized in that the hinge lifter (15) supported on the frame part (T) during the opening process initiated by a lifting drive (11) on the top compartment lid (8) is pivotable (arrow D) toward a stop (23) fixed to the frame, wherein, when the hinge lifter (15) is in the stop position, the top compartment lid (8) can be pivoted farther (arrow G), and, when doing so, the movement lock (30) that is guided by the control device (31) is movable into a blocking position.

4. The hinge device according to one of the claims 1 to 3, characterized in that the top compartment lid (8) itself is pivotable (arrow K) in the area of the connecting part

(14) relative to the hinge lifter (15).

5. The hinge device according to one of the claims 1 to 4, characterized in that the movement lock (30) can be returned by means of the lifting drive (11) into a release position.

5 6. The hinge device according to one of the claims 1 to 5, characterized in that the hinge lifter (15) is connected to the control device (31) or the frame part (T) by a spring module (32, 33; 34) assisting the respective movement of the top compartment lid (8).

10 7. The hinge device according to one of the claims 1 to 6, characterized in that the hinge lifter (15) is configured as a substantially L-shaped pivot lever (21; 21') that is connected with one end by the connecting part (14) pivotably to the top compartment lid (8) and is provided on the other end with the first hinge connection (16) on the hinge frame (T) attached to the carbody and between these two hinges (14 and 16) is provided with a projection (35) on which in the area of a transverse axis (36) a control lever (37) of the control device (31) engaging the connecting part (14) is pivotably connected.

15 8. The hinge device according to one of the claims 1 to 7, characterized in that the hinge device (31) is provided with two or several L-shaped pivot levers (21, 21') which in the area of the first hinge connection (16) have a common pivot axis on the frame part (T).

20 9. The hinge device according to one of the claims 1 to 8, characterized in that the control device (31) is supported between the two L-shaped pivot levers (21, 21') with its transverse axis (36) and, extending away from it, the control lever (37) is

pivotably connected (at 39) with the other end by means of a projection (38) to the connecting part (14).

10. The hinge device according to one of the claims 1 to 9, characterized in that the control device (31) in the area of its transverse axis (36) pivotably secures a control disk (41) that with the other end is connected to the control lever (37) receiving the movement of the top compartment lid (8) from the connecting part (14) and is provided with a profiled clamping section (42) such that the profiled clamping section (42) can be moved toward a stop part (stop shaft 43) at the frame and the movement lock (30) is formed by a force-fit, positive and/or frictional connection.

11. The hinge device according to one of the claims 1 to 10, characterized in that the control lever (37) is guided in a slotted hole (44) of the control disk (41).

12. The hinge device according to one of the claims 1 to 11, characterized in that the control device (31) in the area of the profiled clamping section (42) that can be moved by the control disk (41) has correlated therewith as a counter member of the movement lock (30) a stop shaft (43) and the latter is pivotably supported on the frame part (at T' and T'').

13. The hinge device according to one of the claims 1 to 12, characterized in that the control disk (41) is secured in a nominal position on the control lever (37) by means of a tension spring (34) engaging above the slotted hole (44).

14. The hinge device according to one of the claims 1 to 13, characterized in that between control device (31) and hinge lifter (15) two leaf springs (32, 33) extending between the upper transverse axis (36) and the lower stop shaft (43) are provided as a spring module with which the stop shaft (43) is fixed in its position of use

engaging from below the profiled clamping section (42) in the area of a cylindrical stop cam (46).

5 15. The hinge device according to one of the claims 1 to 14, characterized in that the braking, locking or dead center position generated between the cylindrical stop cam (46) of the stop shaft (43) and the profiled clamping section (42) can be released by means of an emergency release.

16. The hinge device according to claim 15, characterized in that as an emergency release on the stop shaft (43) a manual lever (48) is provided that can pivot the shaft counter (arrow S') to the tensioning force of the leaf springs (32, 33).

10 17. The hinge device according to claim 15 or 16, characterized in that one of the leaf springs (32, 33), respectively, is supported on the stop shaft (43) on either side of the central cylindrical cam (46) for the control disk (41) by means of a cam part (49, 49') that is eccentric to the longitudinal axis (S) of the stop shaft (43) and is eccentrically shaped.